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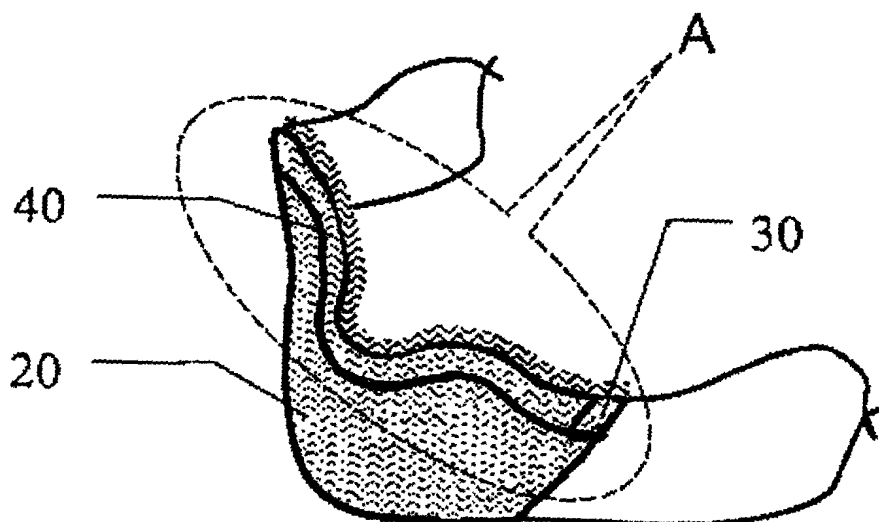
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ning of each regular issue of the PCT Gazette.

(54) Title: ANTI-FOGGING MASK



(57) Abstract: This invention is an Anti-fogging Mask which is designed to prevent glasses from fogging due to the moist breath from the mouth and nose of the users of glasses in the winter, by a specially designed system that will closely contact the mask with the nose of the user. This particular mask is effective in preventing the moist breath coming out through the upper part of the mask, and its structure is simple and is cheap to produce.



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ANTI-FOGGING MASK

TECHNICAL FIELD

This invention relates to an anti-fogging mask which is designed
5 to prevent glasses from fogging due to the moist breath from the
mouth and nose of the users of glasses in the winter, by specially
designed system that will keep in close contact the mask with the
nose of the user.

10 BACKGROUND ART

As an example of an anti-fogging mask, Korea Pat. No. 195919
(utility model) is an anti-fogging mask that is used by people who
ride motorcycles or bicycles in the winter. this patent prevent fogging
on the front part of the helmet caused by the moist breath from the
15 mouth and nose of the user, by using a pad that prevents the moist
breath from rising and by changing the moist breath into water and
letting it go down to the lower part of the mask.

Notwithstanding the present application of this patent, people who use
this patent do not feel comfortable because of the anti-evaporation pad
20 that is attached to the upper part of the mask. Also, this pad is not
washable due to the complicated structure of the mask so that is not
sanitary. This patent cannot be prefectly adjusted to the nose of the

user, and because it covers the nose with a pad, moist breath may come out of the mask and go upward. Another problem with this patent is that is made to be fitted for a motorcycle helmet so that its use is limited to people who are riding motorcycles. Accordingly, a
5 primary objective of this invention is to provide an improved anti-fogging mask by adding a washable and detachable breath-blocking part to a regular form of a mask. This invention perfectly seals the nose and covers the upper part of the face above the mask. It has broad applications in that it can be used not only by
10 people who wear glasses but also by those who ride motorcycles or those who work in cold storage warehouse. Another objective of this invention is to provide a cheaper anti-fogging mask through a mass production system that is possible due to its simple structure.

15 SUMMARY OF THE INVENTION

To achieve the foregoing and other objectives, the present invention is generally directed to an improved anti-fogging mask. In accordance with the objectives of the invention, a pocket is provided at the end of the invention, a breath-blocking material which is made
20 from soft material is inserted inside the said pocket and a wire or a form-memorizing alloy is inserted inside the said beath-blocking material so that the upper part of the invention may be kept in close

contact with the inside the breath-blocking part.

BRIEF DESCRIPTION OF THE DRAWING

FIG. 1 is an overview of the invention

5 FIG. 2 is a detailed drawing of part A of the invention as shown
in FIG. 1.

FIG. 3 is a detailed drawing of part C-C' of the invention as
shown in FIG. 2.

FIG. 4 is another overview of the invention.

10 FIG. 5 is a section of part B-B' of the invention as shown in
FIG. 4.

FIG. 6 shows the invention being worn by the user.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

15 The functions and structure of this invention according to the
drawings is as following.

FIG. 1 is an overview of the invention, FIG. 2 is a detailed
drawing of part A of the invention as shown in FIG. 1, FIG. 3 is a
detailed drawing of part C-C' of the invention as shown in FIG. 2,
20 FIG. 4 is another overview of the invention. FIG. 5 is a section of part
B-B' of the invention as shown in FIG. 4 and FIG. 6 shows the
invention being worn by the user.

Referring now to FIG. 1 and 3, the invention comprises the body (20) of the invention with a pocket (60) on its top, a detachable breath-blocking part (50) that is attached to the said pocket (60) and a wire (40) inserted in and fixed to the breath-blocking part (50).

5 The said breath-blocking part (50) is made from a flexible material such as rubber so that the upper part of the invention may be kept in close contact with the nose and the upper part of the face.

Both ends of the said pocket (60) are tightly sealed so that the breath-blocking part (50) may not come out of the invention. An insert
10 groove (30) is provided inside the area that secures one end of the said pocket (60) so that the breath-blocking part (50) may be easily detachable for washing.

Either by deeply or shallowly inserting the said breath-blocking part (50) and pocket (60) in order to elongate the invention for a
15 better fit, the said breath-blocking part (50) and pocket (60) may have various shapes.

A wire (40) which is coated with plastic or rubber or which is made of form-memorizing alloy is inserted inside breath-blocking part (50) and its shape is maintained unless it is subjected to an outside
20 force. The said wire (40) can be one or more.

Referring now to FIG. 4 and 5, the said breath-blocking part (50), which is detachable, is on the upper part of the body (20) of the

invention. Velcro (70, 70') is attached to the said detachable breath-blocking part (50) so that it can be detachable to the upper end of the body (20) of the invention and a wire (40) is inserted into the said detachable breath-blocking part (50).

5 The said Velcro (70, 70') is attached to the upper part of the body (20) of the invention and the velcro's contact area of the detachable breath blocking part (50) so that it can be detachable to the upper part of the body (20) of the invention.

FIG. 6 illustrates the structure of the invention. The detachable
10 breathe-blocking part (50) and wire (40) are in close contact with the upper part of the body (20) of the invention so that there is no gap between the mask and the nose and the moist breath cannot go up to the glasses (45) but is absorbed by the body (20) of the mask or falls
15 down to the lower part of the body (20) of the invention without fogging up the glasses (45).

The shape of this invention is not limited to the above description but may vary within the scope of the claims of the invention, and such variation of the shape is within the scope of claims of this invention.

what is claimed is:

1. Anti-fogging mask, comprising:
the body of the invention;
a pocket attached to the upper end of the body;
5 a detachable, breath blocking part inserted into the said pocket;
a wire, coated with the plastic or rubber or which is made of
form-memorizing alloy, which helps the upper part of body of the
invention remain closely in contact with the nose.
- 10 2. An anti-fogging mask as in Claim 1, wherein both ends of
the said pocket are sealed and an insert groove is provided to enhance
the detachability of the breath-blocking part.
3. An anti-fogging mask as in Claim 2, wherein velcro is
15 attached to the upper part of the body of the invention and to the
Velcro's contacting area of the breath-blocking part so that the said
breath-blocking part may be detachable to the upper part of the body.

FIG. 1

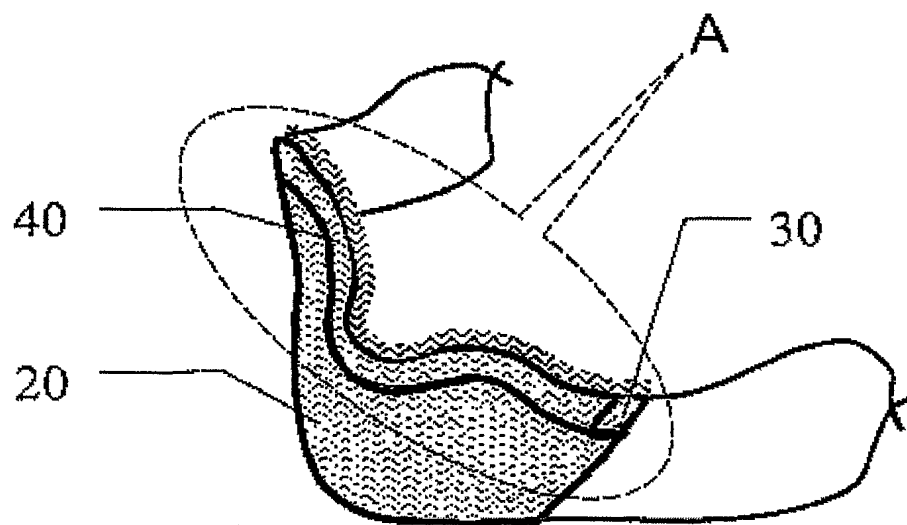
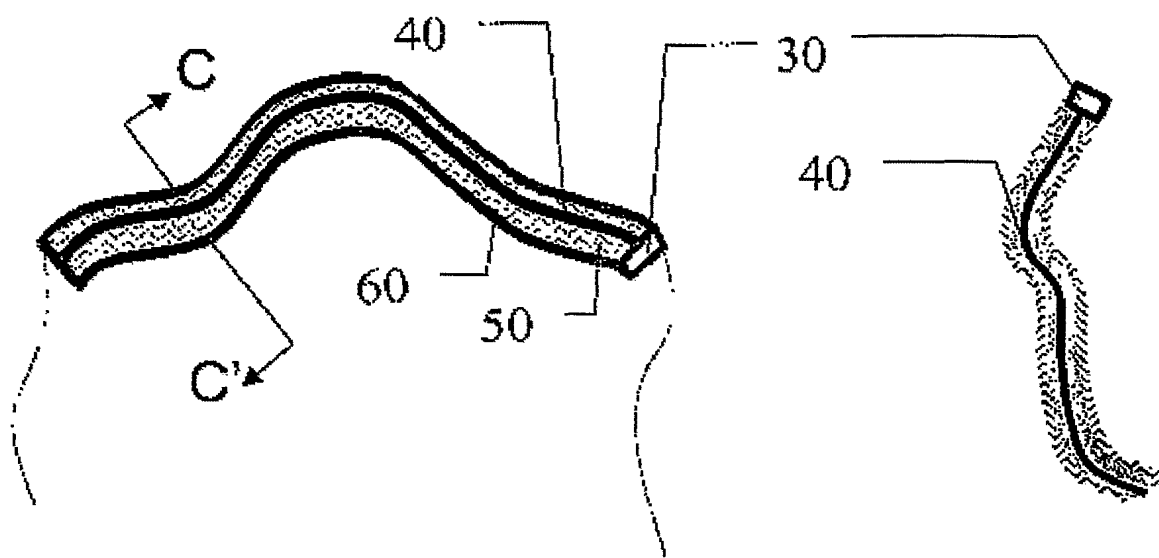


FIG. 2



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FIG. 3

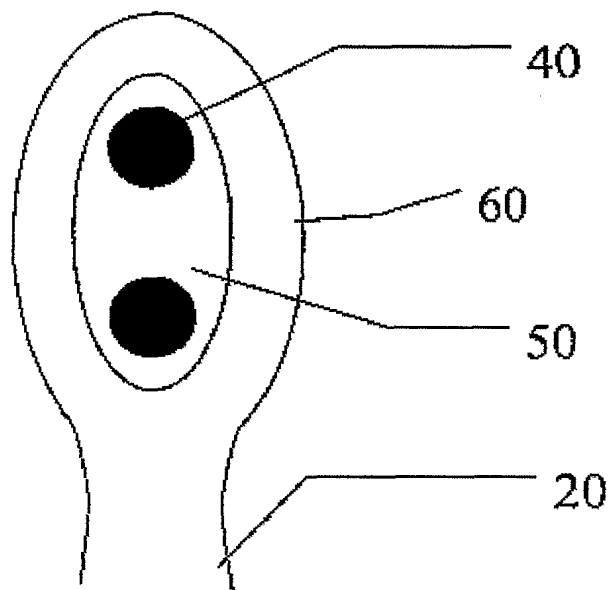
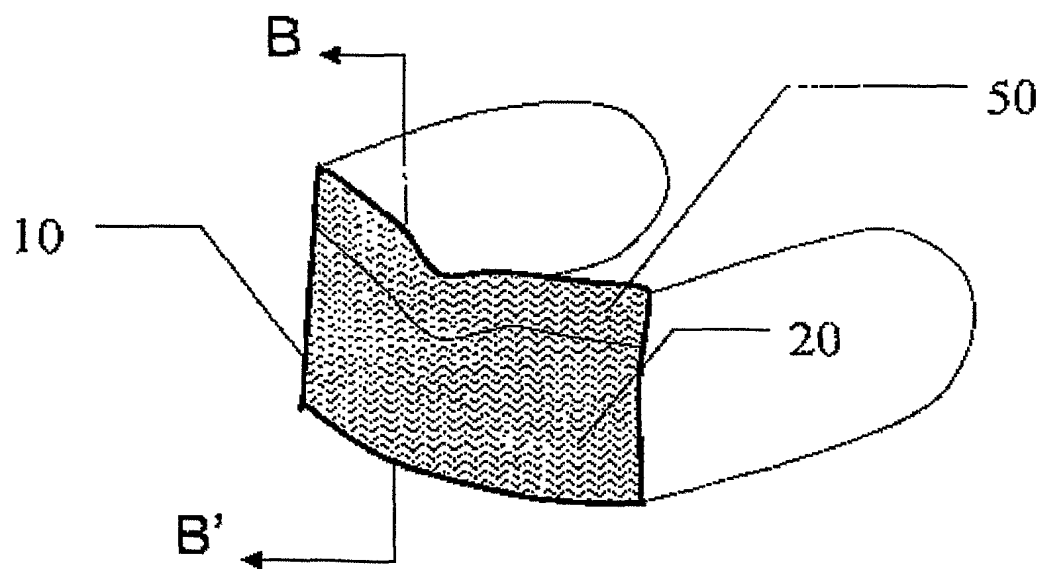


FIG. 4



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FIG. 5

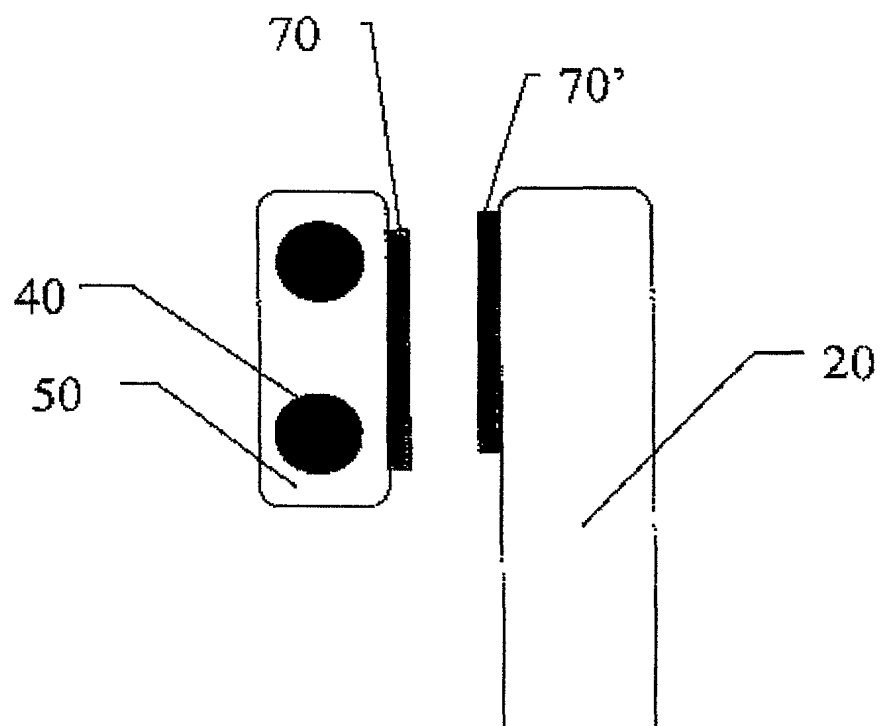
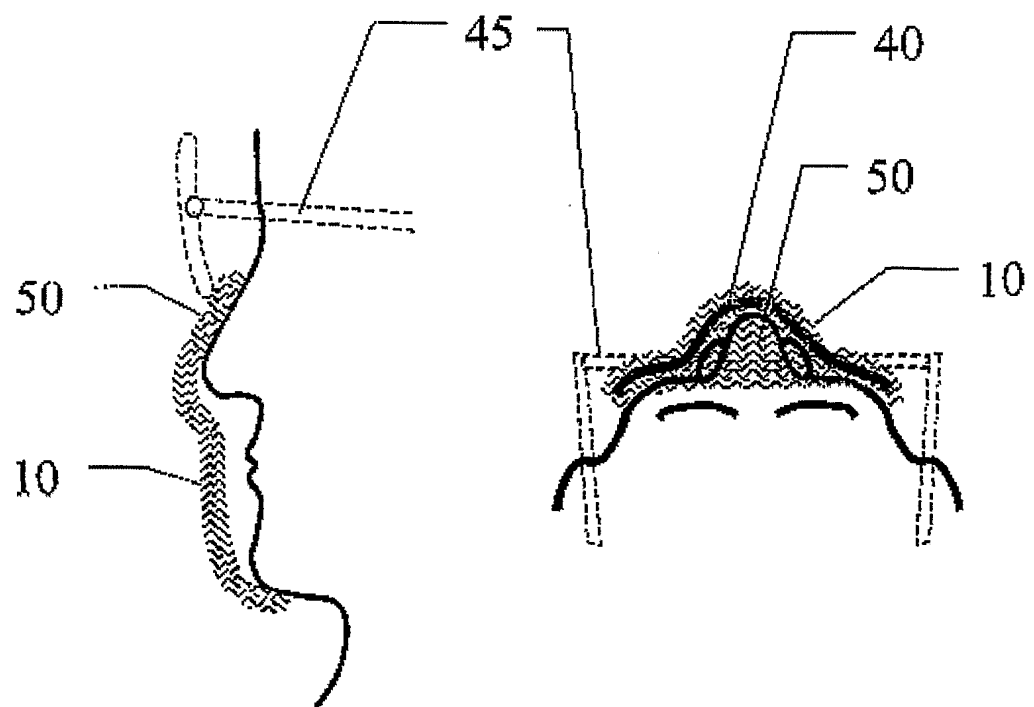


FIG. 6



INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER**IPC7 A62B 18/02**

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

New Patent & Utility Search System (KIPO)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	KR 93-0000348 U (KIM, KWANSIK ; DO, YOUNGHWHA) 20 JANUARY 1993 Whole Document	1,3
Y	JP 63-176464 U (MAGARA SUKEAKI) 16 NOVEMBER 1988 Whole Document	1
Y	JP 02-109653 U (MOTOHIRA YASUHIKO) 3 SEPTEMBER 1990 Whole Document	3
A	KR 2000-0192908 Y (KWON, YONGHWI) 16 AUGUST 2000 Claim 1, Figure 1-Figure 4	3

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

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